



PATENT
ATTORNEY DOCKET NO.: 056291-5057

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of:)
)
STOCKER et al.)
)
Appln. No.: 09/963,686) Group Art Unit: 1624
)
Filed: September 27, 2001) Examiner: Raymond, Richard L.
)
FOR: HETEROCYCLIC DERIVATIVES WHICH)
INHIBIT FACTOR Xa)

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, **Mail Stop Amendment**
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Date: February 28, 2005

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(c)

Attached is a Form PTO-1449 listing the documents previously submitted or cited by the Examiner in parent Application No. 09/297,768. Accordingly, no copies of the listed documents are provided herewith. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

This Information Disclosure Statement is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

03/02/2005 HGUTEMA1 00000023 500310 09963686

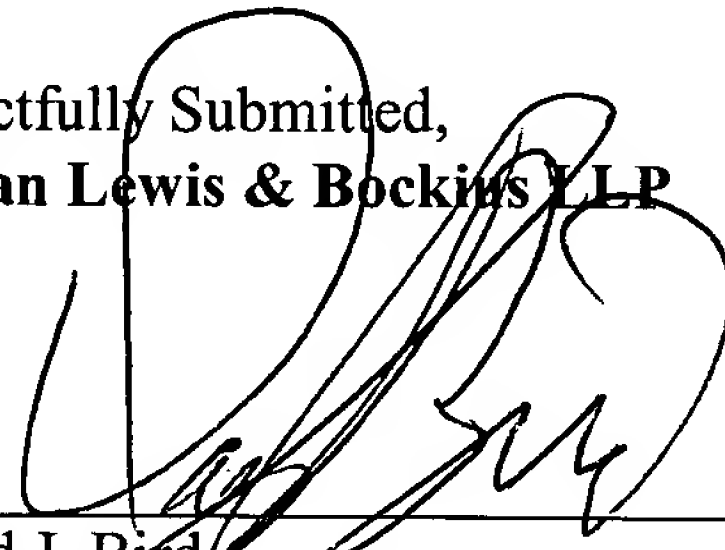
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Please charge the Rule 17(p) official fee required by Rule 97(c) to our Deposit Account No. 50-0310 under Order No. 056291-5057. **Authorization for the Commissioner to charge Deposit Account No. 50-0310 for payment of the Rule 17(p) official fee required by Rule 97(c) is being filed with an Amendment (Fee) Transmittal Form filed concurrently herewith.**

Consideration of the foregoing and enclosures plus the return of a copy of the herewith filed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 along with an early action on the merits of this application are earnestly solicited.

Except for issue fees payable under 37 C.F.R. §1.18, the Director is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. §1.136(a)(3).

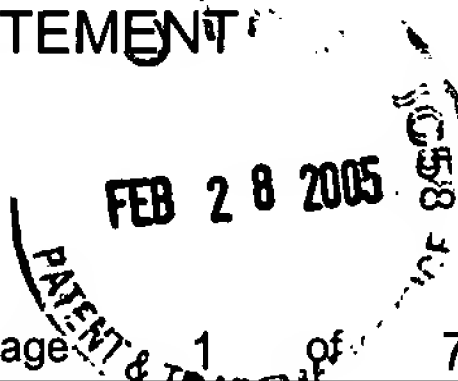
Respectfully Submitted,
Morgan Lewis & Bockius LLP



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FORM PTO-1449 (modified) To: U.S. Department of Commerce Patent and Trademark Office				Atty. Dkt. No.	Client/Matter No.	Client Ref.				
					056291-5057					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <div style="text-align: center;">  </div>				Applicant: STOCKER et al.						
				Appln. No.: 09/963,686						
				Filing Date: September 27, 2001						
				Examiner: Richard L. Raymond		Group Art Unit: 1624				
Date: February 28, 2005 Page 1 of 7										
U.S. PATENT DOCUMENTS										
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)			
	AR	4,167,567	09/1979	McCall						
	BR	4,231,938	11/1980	Monaghan et al.						
	CR	4,537,896	08/1985	Claeson et al.						
	DR	4,564,610	01/1986	Rahtz et al.						
	ER	4,629,728	12/1986	Regnier et al.						
	FR	4,788,196	11/1988	Cross et al.						
	GR	4,806,536	02/1989	Cross et al.						
	HR	4,835,165	05/1989	Cross et al.						
	IR	4,840,963	06/1989	Shepard et al.						
	JR	4,968,704	11/1990	Cross et al.						
FOREIGN PATENT DOCUMENTS						English Abstract		Translation Readily Available		
		Document Number	Date MM/YYYY	Country	Inventor Name		Enclosed	No	Enclose	No
	KR	10177/92	07/1992	Australia	Frei et al.					
	LR	0 097 630 A2	01/1984	EPA	Claeson et al.					
	MR	0 232 740 A1	08/1987	EPA	Ueda et al.					
	NR	0 233 051	08/1987	EPA	Cross et al.					
	OR	0 244 115	11/1987	EPA	Cross et al.					
	PR	0 308 337	09/1989	EPA	Ninomiya et al.					
	QR	0 324 421 A2	07/1989	EPA	Biller					
	RR	0 352 946 A1	01/1990	EPA	Gymer et al.					
	SR	0 359 389	03/1990	EPA	Cross et al.					
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)										
	TR	Boissier et al., "Synthesis and Pharmacological Study of New Piperazine Derivatives...Benzylpiperazines", J. Med. Chem., Sept. 1963, pp. 541-544								
	UR	Bowers Nemia et al., "Synthetic Routes to 3-Pyrrolidinol", Synth. Comm. 13(13):1117-1123 (1983)								
	VR	Budavari: Merck Index, Vol. 11 ED., 1989, See Monograph numbers 804 and 2807								
Examiner					Date Considered:					
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.										

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	5,032,604	07/1991	Baldwin et al.			
	BR	5,138,058	08/1992	Geisen et al.			
	CR	5,254,563	10/1993	Huth et al.			
	DR	5,332,822	07/1994	Misra			
	ER	5,364,865	11/1994	Diana			
	FR	5,371,091	12/1994	Misra et al.			
	GR	5,411,971	05/1995	Emonds-Alt et al.			
	HR	5,556,977	09/1996	Wayne et al.			
	IR	5,563,141	10/1996	Wayne et al.			

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		Document Number	Date MM/YYYY	Country	Inventor Name				
							Enclosed	No	Enclose
	JR	0 409 413	01/1991	EPA	Edwards et al.				
	KR	0 495 750	07/1992	EPA	Frei et al.				
	LR	0 515 240 A1	11/1992	EPA	Emonds-Alt et al.				
	MR	0 519 449 A1	12/1992	EPA	De Cillis et al.				
	NR	0 555 824 A1	08/1993	EPA	Heckel et al.				
	OR	0 576 941 A1	01/1994	EPA	Matyus et al.				
	PR	0 608 759 A2	08/1994	EPA	Gante et al.				
	QR	2 697 252 A1	04/1994	France	Binet et al.				X
	RR	1 449 100	07/1976	GB	Thomae				

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	SR	Cattel et al., "Drug design based on biosynthetic studies: synthesis, biological activity, and kinetics of new inhibitors of 2,3-oxidosqualene cyclase and squalene epoxidase", Steroids, vol. 53, no. 3-5, 1989, pp. 363-391, XP000611661	
	TR	Caulkett et al., Chemical Abstracts. Vol. 131:322629	
	UR	Chambers et al., "Preparation of arylpyridine compounds for treating leukotriene-related diseases", Chemical Abstracts, Abstract No. 139113, Vol. 119 (1993)	

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	AR	5,580,881	12/1996	Binet et al.			
	BR	5,606,065	01/1997	Emonds-Alt et al.			
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	DR	5,795,893	08/1998	Bondinell et al.			
	ER	5,856,326	05/1999	Anthony et al.			
**	FR	6,022,869	02/2000	Faull et al.			
	GR	6,037,343	03/2000	Ali			

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		Document Number	Date MM/YYYY	Country	Inventor Name				
							Enclosed	No	Enclose
	HR	39 05 364 A1	08/1990	Germany	Geisen et al.				
	IR	39 43 225 A	06/1991	Germany	Huth et al.				X
	JR	42 43 858 A1	06/1994	Germany	Pieper et al.				
	KR	43 06 506 A1	09/1994	Germany	Heck et al.				
	LR	92/08709	05/1992	WIPO	Sturzebecher et al.				
	MR	92/18478	10/1992	WIPO	Long et al.				
	NR	93/06085	04/1993	WIPO	Chambers et al.				
	OR	94/18185	08/1994	WIPO	Sturzebecher et al.				
	PR	94/20467	09/1994	WIPO	Von der Salle et al.				

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)							
	QR	Conway et al., "Approaches to the Generation of 2,3-Indolyne", Heterocycles, 1992, 34(11) pp. 2095-2108					
	RR	Cross et al., "Preparation of N-[(heterocyclylmethoxy)phenyl] sulfamides and analogs as antiarrhythmics", Chemical Abstracts, Abstract No. 231211, Vol. 113 (1989)					
	SR	Deratani et al., "Synthesis of new dialkylaminopyridine acylation catalysts and their attachment to insoluble polymer supports", Polymer, April 1987, pp. 825-830					
	TR	Jucker, "Über C-substituierte Piperazinderivate", Helv. Chim. Acta., 45:2383-2042 (1962)					

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	DR	94/20468	09/1994	WIPO	Leinert et al.					
	ER	94/22835	10/1994	WIPO	Wayne et al.					
	FR	96/05189	02/1996	WIPO	Sturzebecher et al.					
**	GR	96/10022	04/1996	WIPO	Faull					
	HR	96/26196	08/1996	WIPO	Lowe et al.					
	IR	96/30343	10/1996	WIPO	Anthony et al.					
	JR	96/33171	10/1996	WIPO	Artico et al.					
**	KR	97/06802	02/1997	WIPO	Brown et al.					
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	MR	Hibino et al., "N-Phenysulfonylindole derivatives", Chemical Abstracts, 118:147461, April, 1993								
	NR	Jain et al., "Compounds Acting on the Central Nervous System, VII. Studies in 1-Pyridyl-1-substituted Piperazines. A New Class of Anticonvulsants", J. Med. Chem., Sept. 1967, pp. 812-818								
	OR	Kataoka et al., Chemical Abstracts, vol. 123, No. 14, 2 October 1995, Columbus, Ohio, U.S.; Abstract No. 179521d, "Homopiperazines as cell migration inhibitors", XP002081582, see abstract & JP 95 145060 A (Tejin Ltd)								
	PR	Kato et al., "Reactivities of 4-Chloropyridine Derivatives and Their 1-Oxides", Chem. Pharm. Bull., 15:1343-1348 (1967)								
	QR	Kato et al., "Studies on Ketene and Its Derivatives. LXXVI. ¹ Reactions of Acetoacetamide and β -Aminocrotonamide and β -Diketone, β --Ketoaldehyde and Related Compounds", Chem. Pharm. Bull., 24(2):303-309 (1976)								

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**	DR	97/28129	08/1997	WIPO	Smithers et al.			
**	ER	97/29104	08/1997	WIPO	Faull			
	FR	97/30971	08/1997	WIPO	Maduskuie et al.			
**	GR	98/06705	02/1998	WIPO	Brown et al.			
**	HR	98/21188	05/1998	WIPO	Preston et al.			
	IR							
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	JR	Kobayashi et al., Chemical Abstracts, Vol. 132:194391						
	KR	Mitsunobu et al., "Preparation of Carboxylic Esters and Phosphoric Esters by the Activation of Alcohols", Bull. Chem. Soc. Jpn., 44(12):3427-3430 (1971)						
	LR	Nowak et al., Chemical Abstracts, Vol. 131:337034						
	MR	Kettner et al., "The Selective Inhibition of Thrombin by Peptides of Boroarginine", The Journal of Biological Chemistry, Vol. 265, No. 30, pp. 18289-18297 (1990)						
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	DR							
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)								
	GR	Sato et al., "Synthetic Studies on Cardiovascular Agents. III. Synthesis of Pyrano-[2,3-c]pyrazoline Derivatives", Yakugaku Zasshi, Vol. 98(3), 1978, pp. 335-348						
	HR	Saxena et al., "Quantitative Structure Activity Relationship in 3-4 Disubstituted Pyridines & 1-(3"-Amino-4"pyridyl)-4-arylpiperazines", Indian J. Chem., Vol. 19B, October, 1980, pp. 873-878						
	IR	Smith et al., "Fibrin, Red Cell and Platelet Interactions in an Experimental Model of Thrombosis", Br. J. Pharmac., Vol. 77, pp. 29-38 (1982)						
	JR	Sundberg et al., "Synthesis with N-Protected 2-Lithioindoles", J. Org. Chem., 1973, 38(19) 3324-3330						
	KR	Szmant et al., "Concerning the Variable Character of the Sulfone Group", J. Amer. Chem. Soc., Vol. 78, pp. 3400-3403 (1956)						
	LR	Tabacik et al., "Squalene expoxidase, oxido-squalene cyclase and cholesterol biosynthesis in normal and tumoral mucosa of the human gastrointestinal tract. Evidence of post-HMGACoA regulation", Biochim. Biophys. Acta, Vol. 666, No. 3, 1982, pp. 433-441, XP000610864						
	MR	Take et al., Chemical Abstracts, Vol. 133:58814						
	NR	Tawada et al., Chemical Abstracts, Vol. 130:38404						
	OR	Tawada et al., Chemical Abstracts, Vol. 131:170361						
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	DR								
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)									
	GR	Vigroux et al., "Cyclization-Activated Prodrugs: N-(Substituted 2-hydroxyphenyl and 2-hydroxypropyl)carbamates Based on Ring-Opened Derivatives of Active Benzoxazolones and Oxazolidones as Mutual Prodrugs of Acetamiophen", J. Med. Chem., Vol. 38, pp. 3983-3994 (1995)							
	HR	Vogel et al., "Cmpmarison of TExperimental Thrombosis Models In Rats Effects of Four Glycosaminoglycans", Thrombosis Research, Vol. 54, No. 5, pp. 399-410 (1989)							
	IR	Von G. Krüger, et al., "(Thomae et al.) Arzneim.-Fosch., Synthesen von N-Benzyl-aminocarbonsäuren und thren Derivaten", (Synthesis and N-benzylaminocarboxylic acids and their derivatives), Vol. 23(2a), pp. 290-295							
	JR	Wallis, "Inhibitors of Coagulation Factor Xa: From Macromolecular Beginnings to Small Molecules", Current Opinion in Therapeutic Patents, August, 1993, pp. 1173-1179							
	KR	Yokoyama et al., "Palladium-catalyzed cross-coupling reaction: direct allylation of aryl bromides with allyl acetate", Tetrahedron Letters, Vol. 26, No. 52, 195, pp. 6457-6460, XP002081581 Oxford GB, pp. 6458-64569: compound 7							
	LR	Zagral et al., "Amino acids and peptides. LIX. Synthesis and some biological properties of L-DABB-vasopressin", Collec. Czech. Chem. Commun., Vol. 31, 1966, pp. 90-95, XP002081879, see compound 11, page 95.							

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